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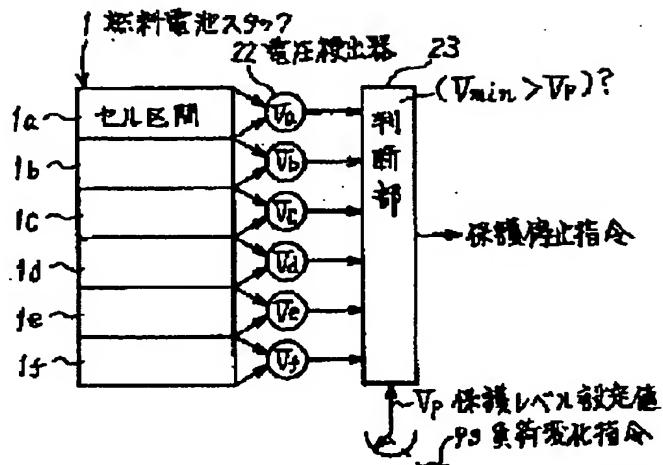
APPLICATION DATE : 16-02-93
 APPLICATION NUMBER : 05025865

APPLICANT : FUJI ELECTRIC CO LTD;

INVENTOR : UJIIE TAKASHI;

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TITLE : PROTECTION/SUSPENSION METHOD FOR FUEL CELL POWER PLANT



ABSTRACT : PURPOSE: To prevent a fuel cell from being damaged by detecting a gas shortage condition which locally takes place in a cell stack when a command is directed to increase fuel cell loading, and thereby suspending the operation of the fuel cell for protecting the cell.

CONSTITUTION: A fuel cell stack 1 is divided into a plurality of cell blocks 1a, 1b, 1c,...1f and the like while plural unit cells are made to be one unit, so that each voltage Va, Vb, Vc,...Vf and the like in each cell block is thereby detected by a voltage detector 22. Detected voltage is compared by a judging means, with a protection level set value Vp determined in advance when either one of respective voltages Va, Vb, Vc,...Vf and the like for the cell blocks is found to have been lowered to the protection level set value Vp in a process that the output electric power of fuel cell stack is quickly increased by a load change command 9s, it is judged that gas shortage takes place in some cell blocks, so that the fuel cell is suspended in operation so as to be protected.

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